IN THE CLAIMS:

Please cancel Claims 3-17 without prejudice or disclaimer of the subject matter recited therein.

Please amend Claims 1, 2 and 18-22 and add new Claims 23-28 as follows.

1. (Currently Amended) A method of manufacturing a mask dot pattern, comprising the steps of:

preparing a structured material comprising composed of a plurality of columnar members and a region containing a first component and a region containing a second component different from the first component surrounding the columnar members, the structured material being formed by depositing the first component and the second component on a substrate;

removing the columnar members from the structured material to form a porous material having a columnar hole; and

introducing a mask material into the columnar hole of the porous material to form a dot pattern; and

removing the porous material.

2. (Currently Amended) The method of manufacturing a mask member dot pattern according to claim 1, wherein the columnar members of the structured material which are so formed as to contain a first material are surrounded by the region which is so formed as to

contain a second material, and wherein the second material component is contained at a ratio of not less than 20 atomic% and not more than 70 atomic% with respect to the total amount of the first material component and the second material component.

Claims 3-17. (Cancelled).

3 48. (Currently Amended) A method of manufacturing a columnar structured material using a dot pattern manufactured by the method according to claim 1, and further comprising:

a step of preparing, on a substrate, a structured material in which columnar substances which are so formed as to contain a first component are dispersed in a member which is so formed as to contain a second component that can form a eutectic together with the first component;

a removal step of removing the columnar substances;

an introducing step of introducing a mask material into columnar holes of a porous material having the columnar holes obtained through the removal step;

a step of preparing dots made of the mask material by removing the

member;

a step of etching the substrate with the dots dot pattern as a mask; and a step of removing the dots dot pattern.

- 5 49. (Currently Amended) The method of manufacturing a columnar structured material dot pattern according to claim 18 1, wherein the removal removing step of removing the columnar substances members is an etching step.
- 6 26. (Currently Amended) The method of manufacturing a columnar structured material dot pattern according to claim 18 1, wherein the introducing step of introducing a mask the material into the holes is an electrodeposition step.
- (Currently Amended) The method of manufacturing a columnar structured material according to claim 18, wherein the step of etching the substrate with the dots dot pattern as a mask is a dry etching step.
- 7 22. (Currently Amended) The method of manufacturing a mask member dot pattern according to claim 1, wherein the mask material contains a noble metal.
- 8 25. (New) The method of manufacturing a dot pattern according to claim 1, wherein the first component and the second component form a eutectic system.
- 9 24. (New) The method of manufacturing a dot pattern according to claim 1, wherein the second component is contained at a ratio of not less than 30 atomic% and not

more than 60 atomic% with respect to the total amount of the first component and the second component.

- 1025. (New) The method of manufacturing a dot pattern according to claim 1, wherein the plurality of columnar members are crystalline aluminum columns.
- 11.26. (New) The method of manufacturing a dot pattern according to claim 1, wherein the region is composed of an amorphous $Si_xGe_{1-x}(0< x<1)$.
- 12 27. (New) The method of manufacturing a dot pattern according to claim 1, wherein the deposition of the first component and the second component is performed by a sputtering method.
- 13 26. (New) A method of manufacturing a dot pattern, comprising the steps of:

preparing a structured material composed of a plurality of columnar members containing a first component and a region containing a second component different from the first component surrounding the columnar members, the structured material being formed by sputtering the first component and the second component on a substrate;

removing the columnar members from the structured material to form a porous material having a columnar hole;

introducing a material into the columnar hole portions of the porous

material to form a dot pattern; and

removing the porous material.